

Title (en)
Linear optical amplifier

Title (de)
Linearer optischer Verstärker

Title (fr)
Amplificateur optique linéaire

Publication
EP 0692868 A1 19960117 (EN)

Application
EP 95304539 A 19950628

Priority
US 27304294 A 19940708

Abstract (en)
An optical amplifier includes a photodetector such as a photodiode (2) for receiving an optical input signal to be amplified. An electro-absorption modulator (6) is responsive to a photocurrent generated by the photodetector such that the modulator absorbs a portion of an optical beam transmitted therethrough in an amount proportional to an amplified replica of the photocurrent. The remaining portion of the beam transmitted through the modulator forms a signal that is an inverted, amplified replica of the input signal.

IPC 1-7
H03F 3/08

IPC 8 full level
G02F 1/015 (2006.01); **H01L 27/15** (2006.01); **G02F 1/017** (2006.01)

CPC (source: EP US)
B82Y 20/00 (2013.01 - EP US); **G02F 1/015** (2013.01 - EP US); **G02F 1/0157** (2021.01 - EP US); **G02F 1/017** (2013.01 - EP US)

Citation (applicant)
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• US 5166553 A 19921124 - KOTERA NOBUO [JP], et al
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• [A] PATENT ABSTRACTS OF JAPAN vol. 18, no. 96 (P - 1694) 16 February 1994 (1994-02-16)

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Designated contracting state (EPC)
DE FR GB IT NL SE

DOCDB simple family (publication)
US 5473467 A 19951205; CA 2145912 A1 19960109; EP 0692868 A1 19960117; JP H0854587 A 19960227; TW 293203 B 19961211

DOCDB simple family (application)
US 27304294 A 19940708; CA 2145912 A 19950330; EP 95304539 A 19950628; JP 17125395 A 19950707; TW 83111521 A 19941210